



Cadotte Lake AQHI Ambient Air Monitoring Station Site Documentation / Network Documentation

Ambient Site Doc-PRAMP-20191024-01651

October 2019

Ambient Air Monitoring Site Documentation Template

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1.0 General Information

1.1 Station

Station identification/number	Cadotte Lake AQHI Station (01651)
Station Name (building name, park name, etc.)	Cadotte Lake AQHI Station
Date station established	October 1, 2019
Date information last updated	October 1, 2019

1.2 Location

Station address (street address/legal land description)	09-27-86-16W5	
Nearest cross-street	Hwy 986 and Haig Lake Rd	
Air zone / Airshed zone	PRAMP Airshed	
Latitude	56.49013	
Longitude	-116.42725	
UTM Coordinates	East: 535267.54	North: 6260778.88
Community (municipality, community or county)	WoodLand Cree Community	
Population of city or metropolitan area	870	
Census year	2016	

DIRECTIONS:

From Peace River, travel approx. 8 km on Hwy 2 (south) and turn onto Hwy 688 E.

Follow this for 23 km and then turn onto Hwy 986 (east).

From the junction of Hwy 688 and Hwy 986, travel about 49 km, turn left on Haig Lake Rd. The trailer is set on the left side of the road.

1.3 Owner/Operator/Approval Holder

Name of operating agency	Bureau Veritas Canada
Address	#1 2080 39th Ave NE
	Calgary, AB T2E 6P7

Contact name	Christopher Wesson
Phone number	780-446-2724
Email address	Christopher.WESSON@bvlabs.com

Name of owner/approval holder	Peace River Air Monitoring Program
Address	Suite 91, 305 – 4625 Varsity Drive NW
	Calgary, AB, T3A 0Z9
Contact name	Mike Bisaga / Lily Lin
Phone number	780-266-7068 / 587-225-2248
Email address	prampotech@prampairshed.ca
Approval number	n/a

2.0 Site Description

Land use by sector (use 90° as a sector)	1. North: Rural, Forest	
	2. East: Rural, Forest	
	3. South: Homestead, Forest, River	
	4. West: Homestead, Agricultural, Forest	
Site elevation (above sea level (m))	597 m	
Angle of elevation to nearby buildings	1. Greatest angle: n/a	
	2. Building direction: n/a	
Average building height in the area (m)	No buildings present in immediate area	
Air flow restrictions (yes/no)	North: No	South: Yes
	East: No	West: No
Distance to nearest trees (m)	30 m	
Manifold	1. Type: Stainless Steel / Glass	
	2. Distance from supporting structure: 1 m	
Meteorological Information	1. Type: Aluma Tower	
	2. Distance from supporting structure: 7 m	
	3. Distance from station: 10 m	
	4. Contact: on the air monitoring station	

3.0 Site Influences

3.1 Localized sources (within 20 metres of station, monitor, or sampler)

Type	Distance (m)	Description
Open field	n/a	n/a

3.2 Roadway influences

Name	Type	*Traffic Volume	Distance (m)	Description
Haig Lake Road	Secondary highway	Unknown - Minimal	60 m	Gravel Road
Hwy 986	Highway	Unknown – Minimal	130 m	Paved Rural Highway

*Average annual weekday traffic

3.3 Major point sources

Source Name	Source Type	Production Capacity	Distance from Site (km)	Compass direction (degrees)
CNRL Peace River Facility	H2S, THC	unknown	25 km	Southwest

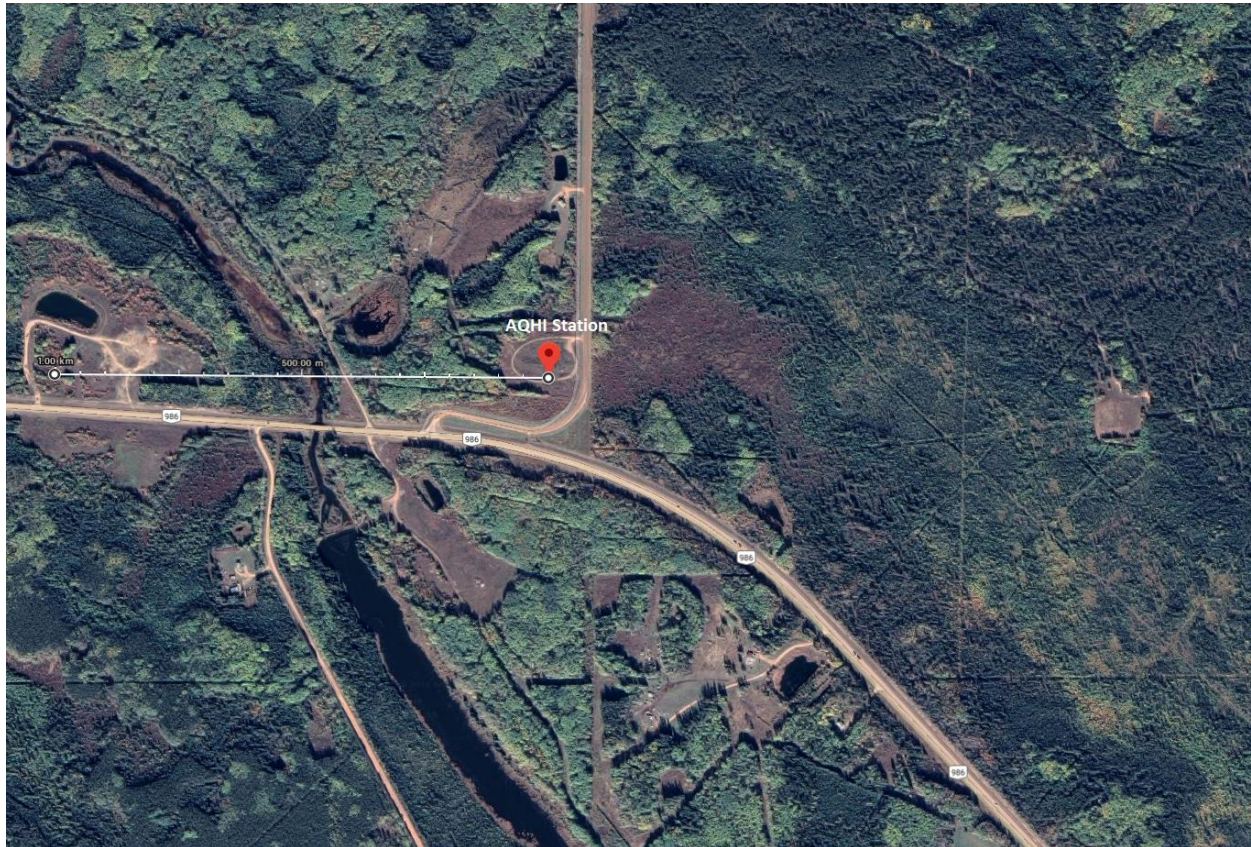
4.0 Instruments

Station Name: Cadotte Lake AQHI station

Instrument Type	Owner	Make	Serial No.	Sampling Height (m)	Date Installed
Sulphur dioxide	PRAMP	API T100	772	4	October 2, 2019
Methane / Non-methane hydrocarbons	PRAMP	Thermo 55i	1172750023	4	October 2, 2019
Total reduced sulphur	PRAMP	API T100	132	4	October 2, 2019
TRS convertor	PRAMP	CD Nova CDN-101	520	n/a	October 2, 2019
Nitrogen dioxide	PRAMP	API T200	837	4	October 2, 2019
Ozone	PRAMP	API T400	824	4	October 2, 2019
Particulate Matter 2.5	PRAMP	API T640	318	6	October 2, 2019
Wind speed/direction	PRAMP	MetOne 010/020	W15277/W16102	10.5	October 2, 2019
Temperature/RH	PRAMP	RM Young	13356	4	October 2, 2019
Data logger	PRAMP	Envista Ultimate	282144	n/a	October 2, 2019
Hydrogen generator	PRAMP	Thermo HG300	190567058	n/a	October 2, 2019

5.0 Continuous Stations

5.1 Area Map for Continuous Station

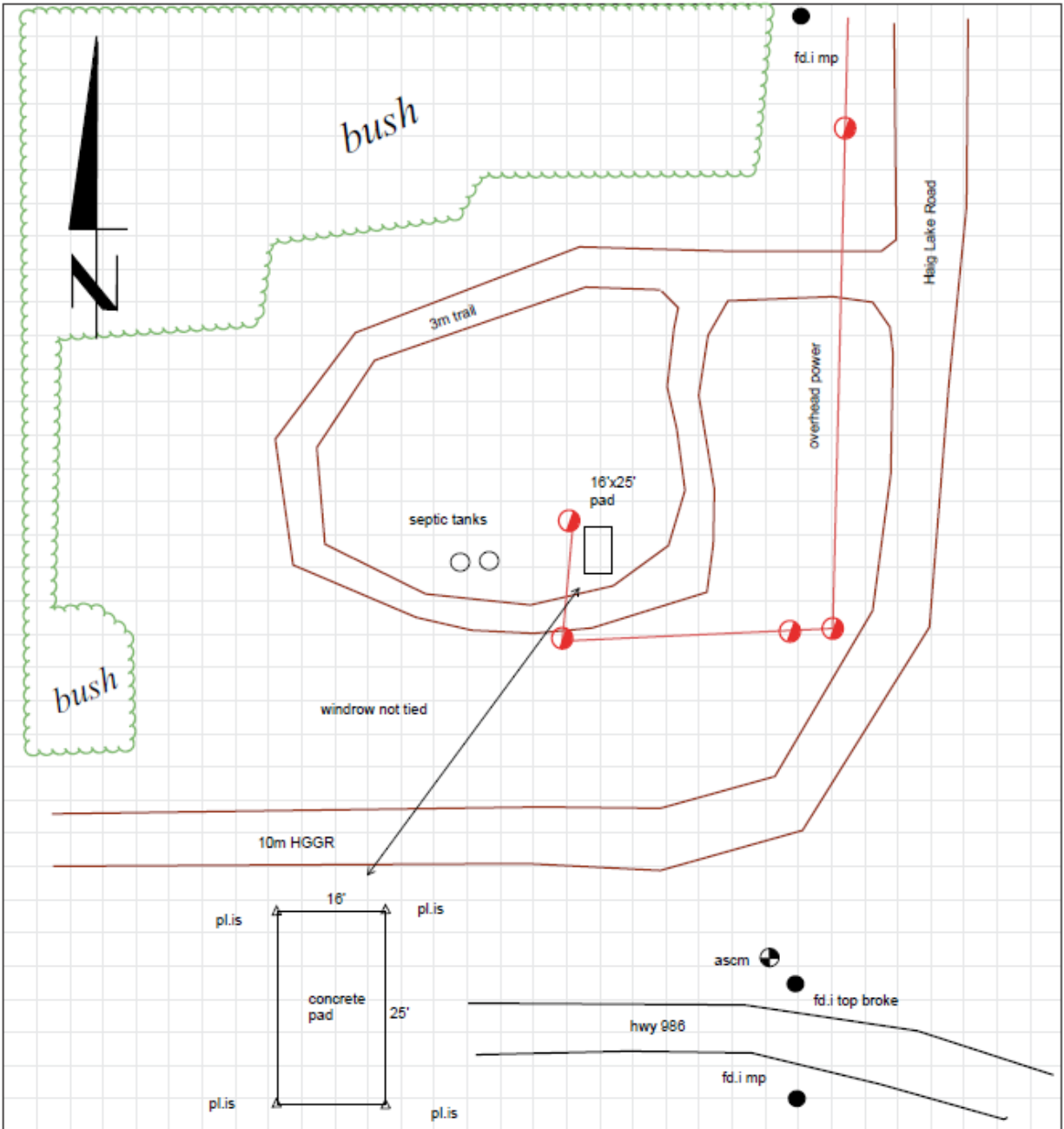


Source: <http://maps.google.com>

Retrieved: October 2019

5.2 Sketches for Continuous Stations

Location: LSD/Quarter: NE Section: 27 Township: 86 Range: 16 W. 5



Source: Northern Cross Oilfield Services, Explore, Job # X106219

5.3 Photographs for Continuous Stations

East:



North:



South:



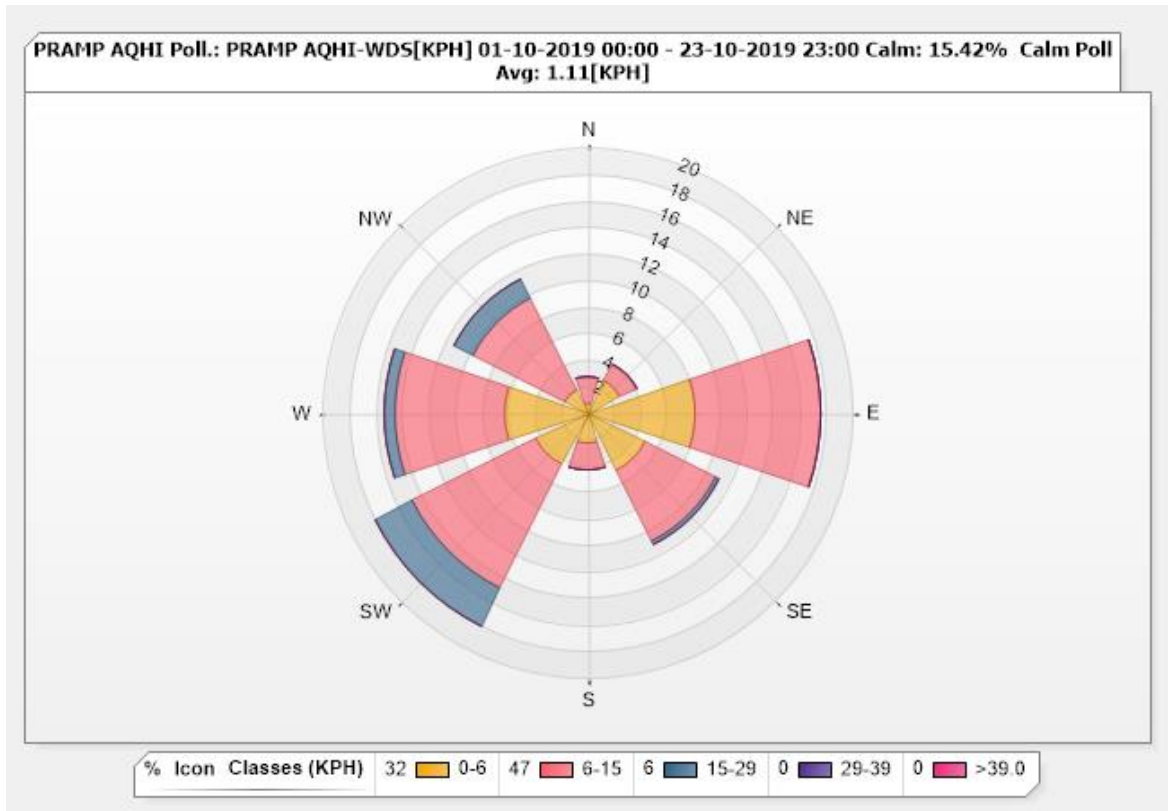
West:



Colour picture showing the details of the sampling inlet(s) or manifold in relation to the station.



5.4 Wind Rose



Data Period: October 1, 2019 – October 23, 2019

6.0 Network of Stations

